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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,264	12/16/2004	Arnoldus Werner Oomen	NL 020539	6693
24737	7590	04/28/2009	EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			SU, SARAH	
P.O. BOX 3001			ART UNIT	PAPER NUMBER
BRIARCLIFF MANOR, NY 10510			2431	
MAIL DATE		DELIVERY MODE		
04/28/2009		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/518,264	Applicant(s) OOMEN ET AL.
	Examiner Sarah Su	Art Unit 2431

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 20 January 2009.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-11 and 15 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1, 3-11, 15 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date: _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/1648)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date: _____	6) <input type="checkbox"/> Other: _____

FINAL ACTION

1. Amendment B, received on 20 January 2009, has been entered into record. In this amendment, claims 1 and 3-11 have been amended, and claim 14 has been cancelled.
2. Claims 1, 3-11, and 15 are presented for examination.

Response to Arguments

3. With regards to the objection of the claims, the applicant has submitted claim amendments, and the examiner hereby withdraws the objections.
4. With regards to the rejection of claim 14 under 35 USC 101, the applicant has canceled claim 14, and the examiner hereby withdraws the rejection.
5. Applicant's arguments filed 20 January 2009 have been fully considered but they are not persuasive.

As to claims 1, 3-6, 8, 11, and 15, it is argued by the applicant that Iverson does not disclose that the parameters used to derive a hash function cannot be the predetermined parameters that relate to perceptual information of the multimedia signal. The examiner respectfully disagrees. It is noted that the examiner has cited Hampapur as teaching where the predetermined parameters relate to perceptual information (0006, lines 6-8). Iverson discloses that a hash function is applied to the access word (i.e. parameters) received from the application program (col. 6, lines 52-55). Iverson also discloses that the access word is received by an encoder in a message from an application program (col. 6, lines 17-19). It would have been obvious to one of ordinary

skill in the art that the received parameters may be parameters that describe perceptual information, as taught by Hampapur. Therefore, Iverson in combination with Hampapur disclose that the hash function is derived from received parameters, where the received parameters relate to perceptual information.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 1, 3-6, 8, 11, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iverson et al. (US Patent 5,852,664 and Iverson hereinafter) in view of Hampapur et al. (US 2001/0003468 A1 and Hampapur hereinafter).

As to claims 1, 11, and 15, Iverson discloses a system and method for decoding access control for encoded multimedia signals, the system and method having:

receiving a bit-stream comprising a compressed multimedia signal
(col. 4, lines 45-47, 49-52);

deriving a hash function from the parameters (col. 6, lines 56-64).

Iverson does not disclose:

selectively reading from the bit-stream predetermined parameters,
wherein said predetermined parameters relate to perceptual information of
the multimedia signal.

Nonetheless, this feature is well known in the art and would have been an obvious modification of the teachings disclosed by Iverson, as taught by Hampapur.

Hampapur discloses a system and method for detecting scene changes in a digital video stream, the system and method having:

selectively reading (i.e. extracting) from the bit-stream predetermined parameters (i.e. metadata), wherein said predetermined parameters relate to perceptual information (i.e. visual representation) of the multimedia signal
(0006, lines 6-8).

Given the teaching of Hampapur, a person having ordinary skill in the art at the time of the invention would have readily recognized the desirability and advantages of modifying the teachings of Iverson with the teachings of Hampapur by reading information that is related to perceptual data. Hampapur recites motivation by disclosing that automatically selecting representative data would reduce labor (0006, lines 4-6). It is obvious that the teachings of Hampapur would have improved the teachings of Iverson by reading information related to perceptual information in order to reduce labor.

As to claim 3, Iverson discloses:

where the multimedia signal comprises at least one of an audio signal, a video signal and an image signal (col. 9, lines 26-31).

As to claim 4, Iverson discloses:

where the multimedia signal has been compressed using at least one of transform encoding, subband encoding and parametric encoding (col. 6, lines 28-35).

As to claim 5, Iverson does not disclose:

where the predetermined parameters relate to at least one of the energies of frequency bands; the amplitudes of frequency bands; the tonality of frequency bands; the luminance of an area of a video signal; and the chrominance of an area of a video signal.

Nonetheless, this feature is well known in the art and would have been an obvious modification of the teachings disclosed by Iverson, as taught by Hampapur.

Hampapur discloses:

where the predetermined parameters relate to at least one of the energies of frequency bands; the amplitudes of frequency bands; the tonality of frequency bands; the luminance of an area of a video signal; and the chrominance of an area of a video signal (0069, lines 3-7).

Given the teaching of Hampapur, a person having ordinary skill in the art at the time of the invention would have readily recognized the desirability and advantages of modifying the teachings of Iverson with the teachings of Hampapur by using data related to the chrominance of an area. Hampapur recites motivation by disclosing that measuring chrominance distance can be used to determine the difference between frames (0069, lines 1-3). It is obvious that the teachings of Hampapur would have

improved the teachings of Iverson by using data related to chrominance in order to determine the difference between data frames.

As to claim 6, Iverson discloses:

analyzing the received bit-stream in order to determine the decoding scheme used to compress the multimedia signal (col. 6, lines 38-42).

As to claim 8, Iverson discloses:

reading the located predetermined parameters (col. 3, lines 27-29);
decoding the predetermined parameter using the decoder description (col. 7, lines 51-53).

8. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Iverson in view of Hampapur as applied to claim 6 above, and further in view of Makiyama et al. (US Patent 6,687,409 B1 and Makiyama hereinafter).

As to claim 7, Iverson in view of Hampapur does not disclose:

wherein said analyzing step comprises comparing the properties of the bit-stream with a database containing properties of a number of coding schemes.

Nonetheless, this feature is well known in the art and would have been an obvious modification of the teachings disclosed by Iverson in view of Hampapur, as taught by Makiyama.

Makiyama discloses a system and method for decoding using tool information for constructing a decoding algorithm, the system and method having:

wherein said analyzing step comprises comparing the properties of the bit-stream with a database containing properties of a number of coding schemes (col. 2, lines 14-22; col. 4, lines 47-50; col. 12, lines 5-7).

Given the teaching of Makiyama, a person having ordinary skill in the art at the time of the invention would have readily recognized the desirability and advantages of modifying the teachings of Iverson in view of Hampapur with the teachings of Makiyama by comparing data with coding schemes in a database. Makiyama recites motivation by disclosing that being able to select the coding scheme based on input data allows performing a coding process in conformity with the determined coding scheme (col. 12, lines 8-11). It is obvious that the teachings of Makiyama would have improved the teachings of Iverson in view of Hampapur by comparing input data with coding scheme data in a database in order to allow selection of an appropriate coding scheme.

9. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Iverson in view of Hampapur as applied to claim 1 above, and further in view of Krapp et al. (US 2002/0169934 A1 and Krapp hereinafter).

As to claim 9, Iverson in view of Hampapur does not disclose:

where the predetermined parameters relate to a first set of frequency bands and wherein the step of deriving the hash function comprises deriving estimates of values of spectral information present in a second set

of frequency bands from the predetermined parameters, the hash function subsequently being calculated from the estimated value.

Nonetheless, this feature is well known in the art and would have been an obvious modification of the teachings disclosed by Iverson in view of Hampapur, as taught by Krapp.

Krapp discloses a system and method for eliminating data redundancies, the system and method having:

where the predetermined parameters relate to a first set of frequency bands and wherein the step of deriving the hash function comprises deriving estimates of values of spectral information present in a second set of frequency bands from the predetermined parameters, the hash function subsequently being calculated from the estimated value (0064, lines 4-14).

Given the teaching of Krapp, a person having ordinary skill in the art at the time of the invention would have readily recognized the desirability and advantages of modifying the teachings of Iverson in view of Hampapur with the teachings of Krapp by calculating a hash function based on spectral information. Krapp recites motivation by disclosing that any suitable data block identifier can be calculated in order to ensure accuracy of transmitted data (0063, lines 1-5; 0064, lines 1-2). It is obvious that the teachings of Krapp would have improved the teachings of Iverson in view of Hampapur by calculating a hash based on spectral information in order to ensure the accuracy of transmitted data.

10. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Iverson in view of Hampapur as applied to claim 1 above, and further in view of Levine (US Patent 6,266,644 B1).

As to claim 10, Iverson in view of Hampapur does not disclose:

where the multimedia signal is compressed using a parametric encoding scheme and where the predetermined parameters relate to at least one of the sinusoidal components, the noise components and the transient components utilized within the parametric scheme.

Nonetheless, this feature is well known in the art and would have been an obvious modification of the teachings disclosed by Iverson in view of Hampapur, as taught by Levine.

Levine discloses a system and method for audio encoding, the system and method having:

where the multimedia signal is compressed using a parametric encoding scheme and where the predetermined parameters relate to at least one of the sinusoidal components, the noise components and the transient components utilized within the parametric scheme (col. 1, lines 11-20; col. 2, lines 15-16, 29-31).

Given the teaching of Levine, a person having ordinary skill in the art at the time of the invention would have readily recognized the desirability and advantages of modifying the teachings of Iverson in view of Hampapur with the teachings of Levine by compressing a signal according to an encoding scheme based on sinusoidal

components. Levine recites motivation by disclosing that minimizing the amount of encoded data preserves available storage, throughput, and bandwidth for other uses (col. 1, lines 30-32). It is obvious that the teachings of Levine would have improved the teachings of Iverson in view of Hampapur by compressing a signal according to an encoding scheme in order to preserve resources.

Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sarah Su whose telephone number is (571) 270-3835. The examiner can normally be reached on Monday through Friday 7:30AM-5:00PM EST..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ayaz R. Sheikh/
Supervisory Patent Examiner, Art Unit 2431

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